Day 17 Yet more LQR

AE353 Spring ZOZZ Bretl





Why is the cost "quadratic" and what does it really mean?







 $= g_1 x_1^2 + 2 g_{3} x_1 x_2 + g_{2} x_2^2 + v_1 u_1^2$

What Q and R would produce a given cost?







Y

Q and R are commonly chosen to be diagonal

Q = diag (g, ..., gnx)

R = diag (r,, ..., rnu)

all positive